U.S. General Services Administration

GSA PKCS7 Signing Tool User Guide

VERSION 2.0.0

FIPS 201 EVALUATION PROGRAM

September 3, 2015

Office of Government-wide Policy
Office of Technology Strategy
Identity Management Division
Washington, DC 20405

Table of Contents

1. Introduction

Background

The GSA PKCS7 Signing Tool enables a card holder to digitally sign a document using their PIV/PIV-I card.

Purpose and Scope

This document serves as a user manual for the General Services Administration (GSA) PKCS7 Signing Tool. This tool is available for anyone who wants to digitally sign a document using their PIV card.

System Requirements

- Mac OS X version 10.7.6 or higher
- 1 GB RAM
- 210 MB of available hard-disk space
- Smart Card Reader

Document Organization

This document is structured as follows:

Section 1, *Introduction*, provides a brief background, and includes the purpose and scope of the document.

Section 2, *Installation*, describes the steps for installing the tool.

Section 3, *Run the Tool*, provides instructions on how to sign and unpack a document.

Section 4, *Troubleshooting*, provides contact information if any issues arises while using the tool.

2. Installation

2.1 Installation File

Double-click the “GSA Signing Tool.dmg” file to start the installation process.

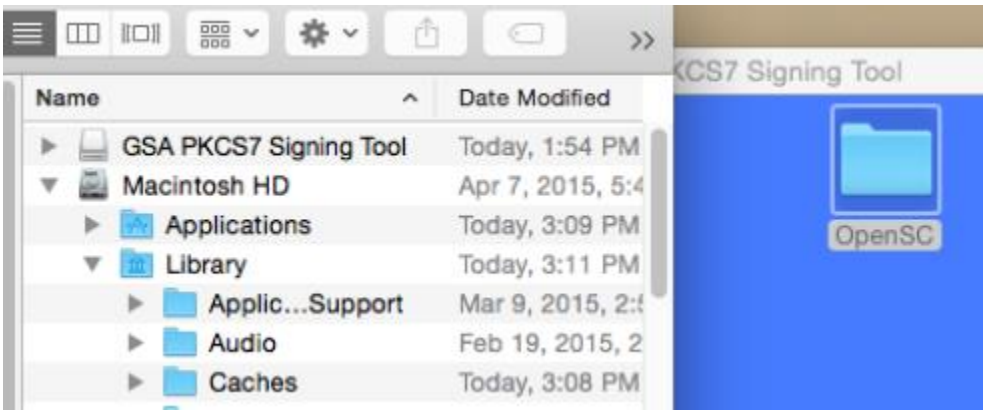
2.2 Setup

Use the following screenshots as guidance for installing the tool.

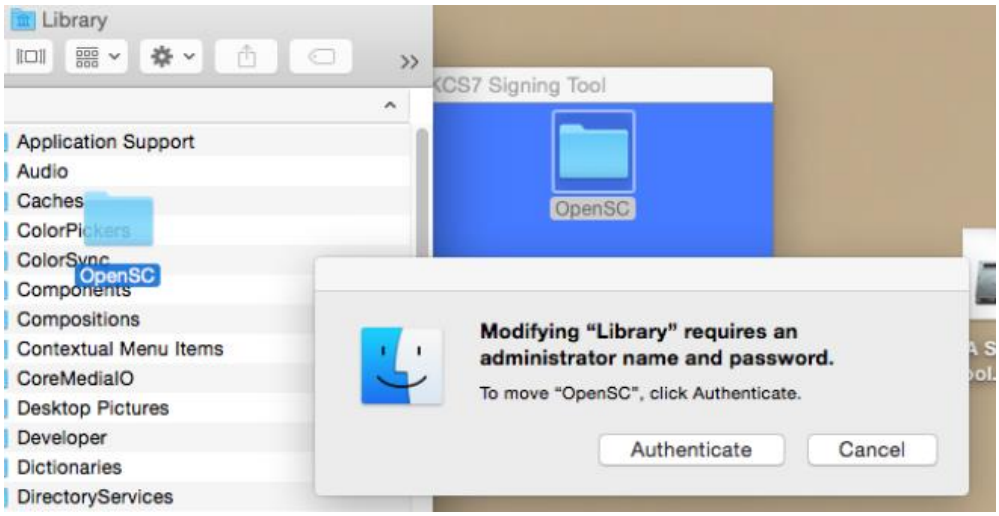
Double-click the “GSA PKCS7 Signing Tool”icon

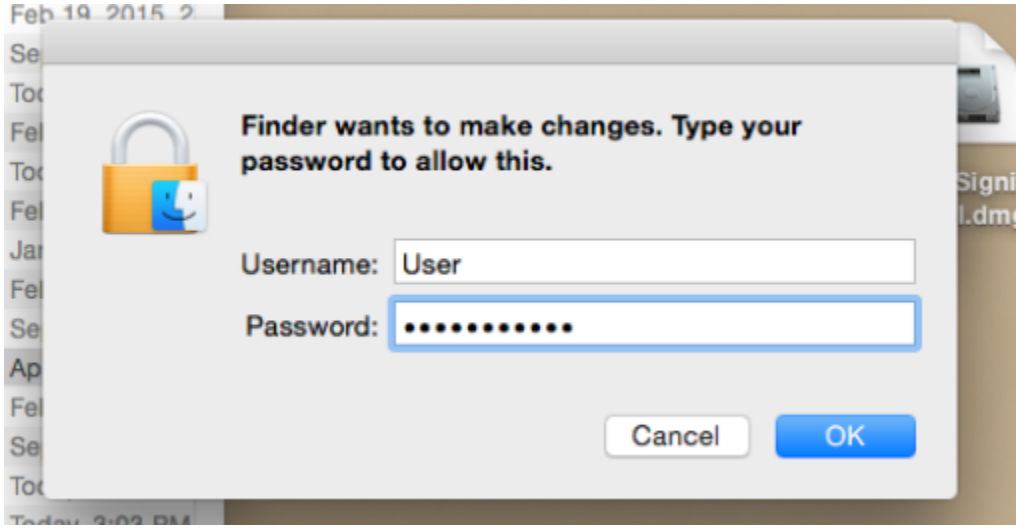
Drag and drop the “GSA PKCS7 Signing Tool” icon to the “Applications” directory

Drag and drop the “OpenSC” directory to the “Library” directory

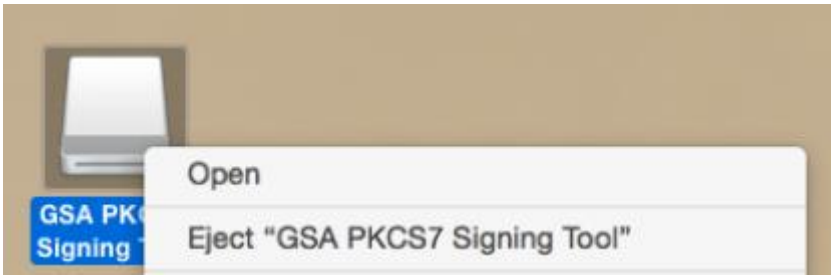


Provide your admin credentials to authorize this move





Right click and eject the “GSA PKCS7 Signing Tool”



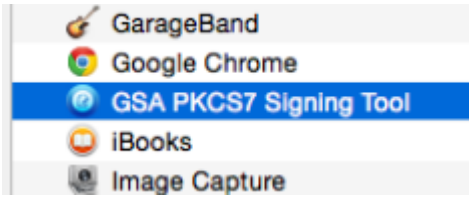
3. Running the Tool

3.1 Insert your PIV card

Make sure your PIV card is inserted correctly into the reader device. Also, verify the reader device is inserted correctly into your system.

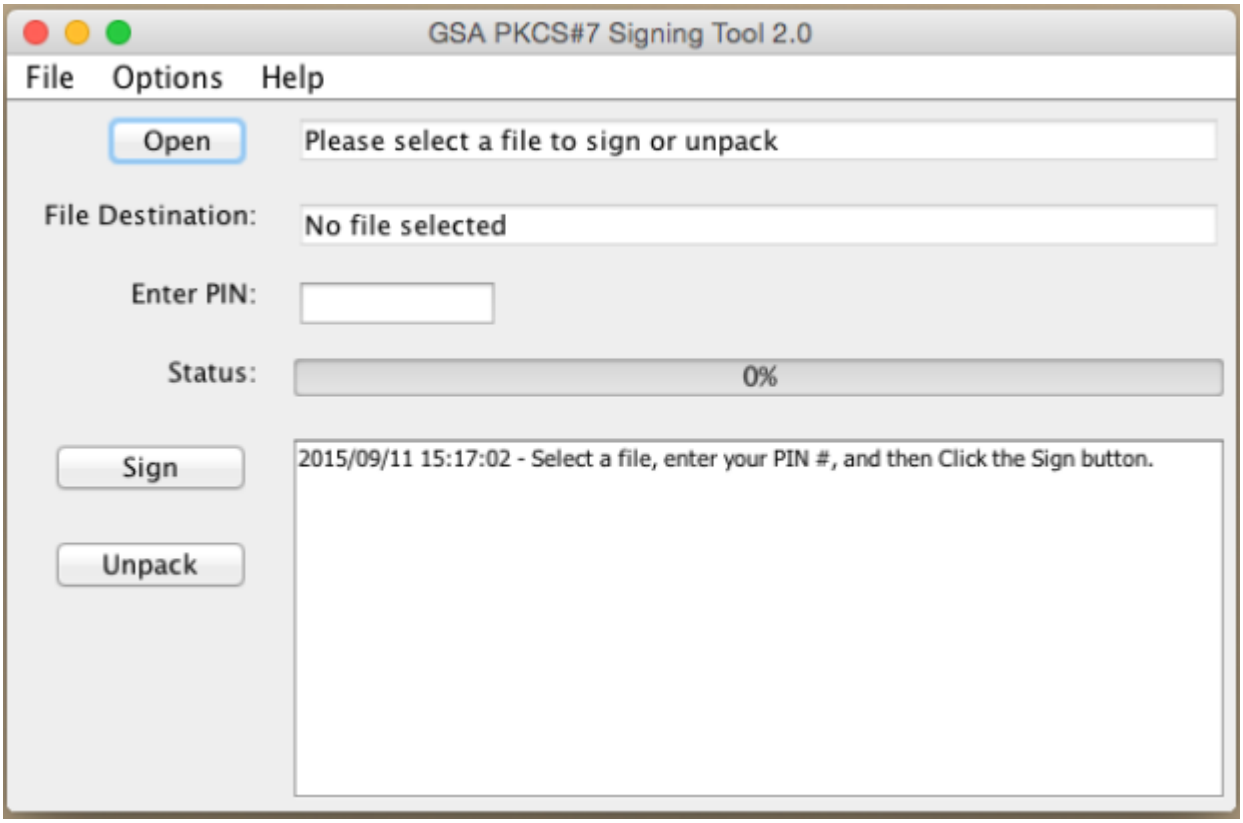
3.2 Start the tool

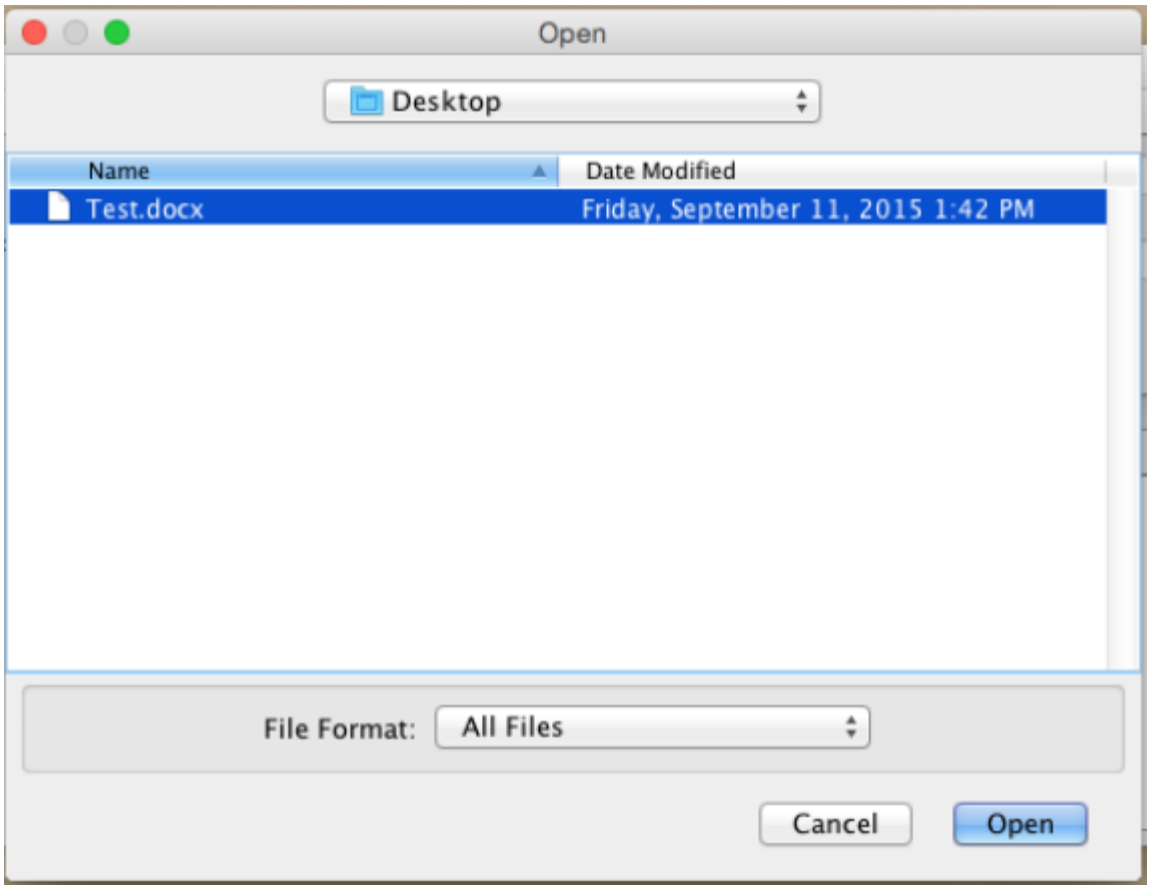
Start the tool by navigating to Applications -> GSA PKCS7 Signing Tool



3.3 Select a file to sign

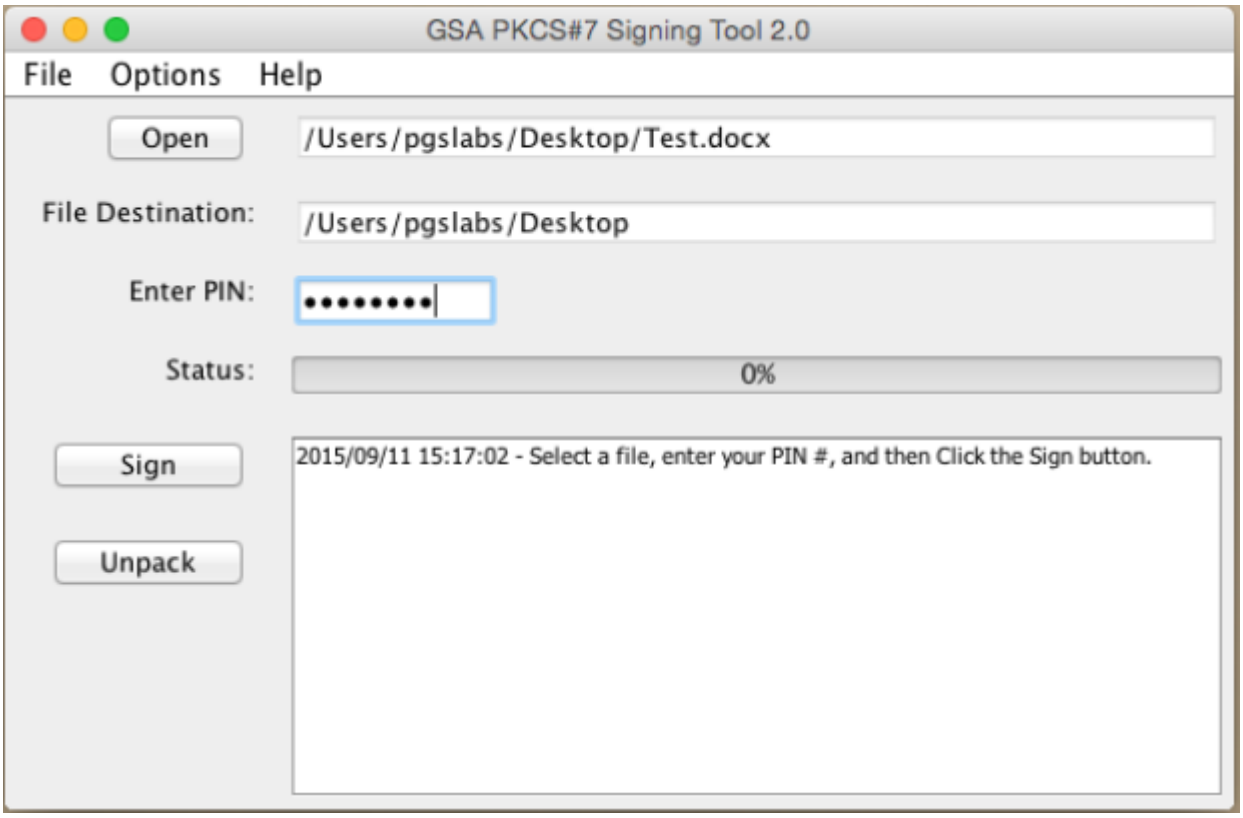
Once the tool is started, click the "Open" button and browse to the file you would like signed. Once, you locate the file you would like signed, highlight it by clicking it once, and then click open.




Open
Desktop
Name
Date Modified
Test.docx
Friday, September 11, 2015 1:42 PM
File Format:
All Files
Cancel
Open

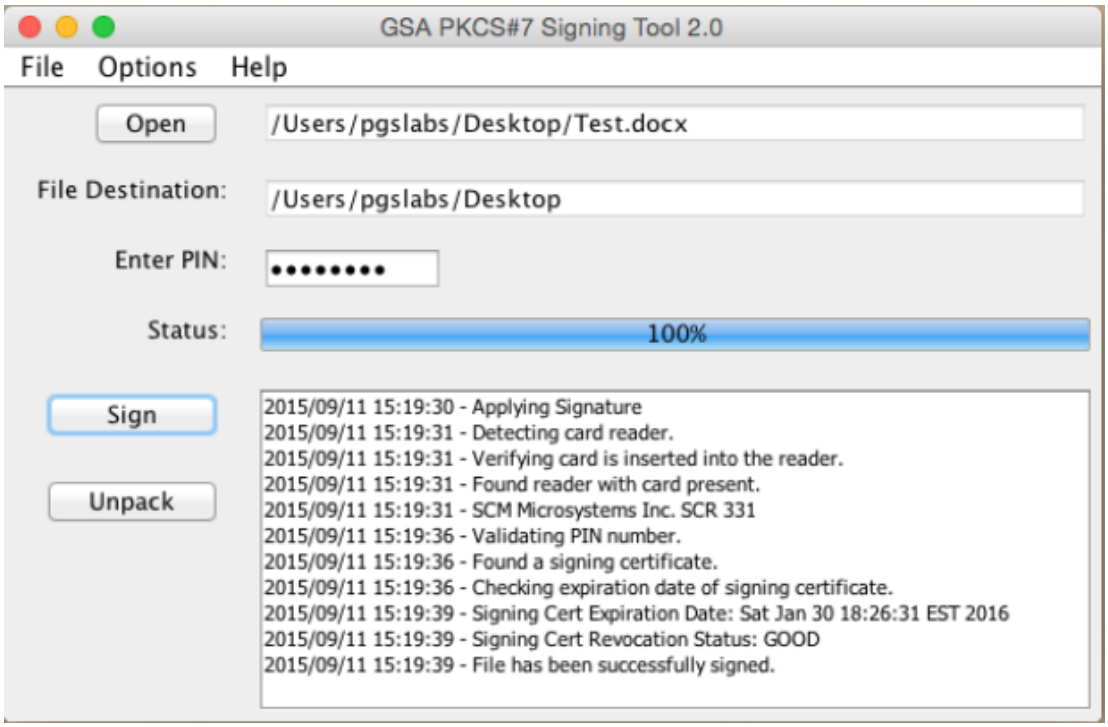
3.4 Enter your pin

Click in the input box adjacent to the “Enter PIN:” label, or tab to the input box. Next, enter your PIN number in the input box exactly.



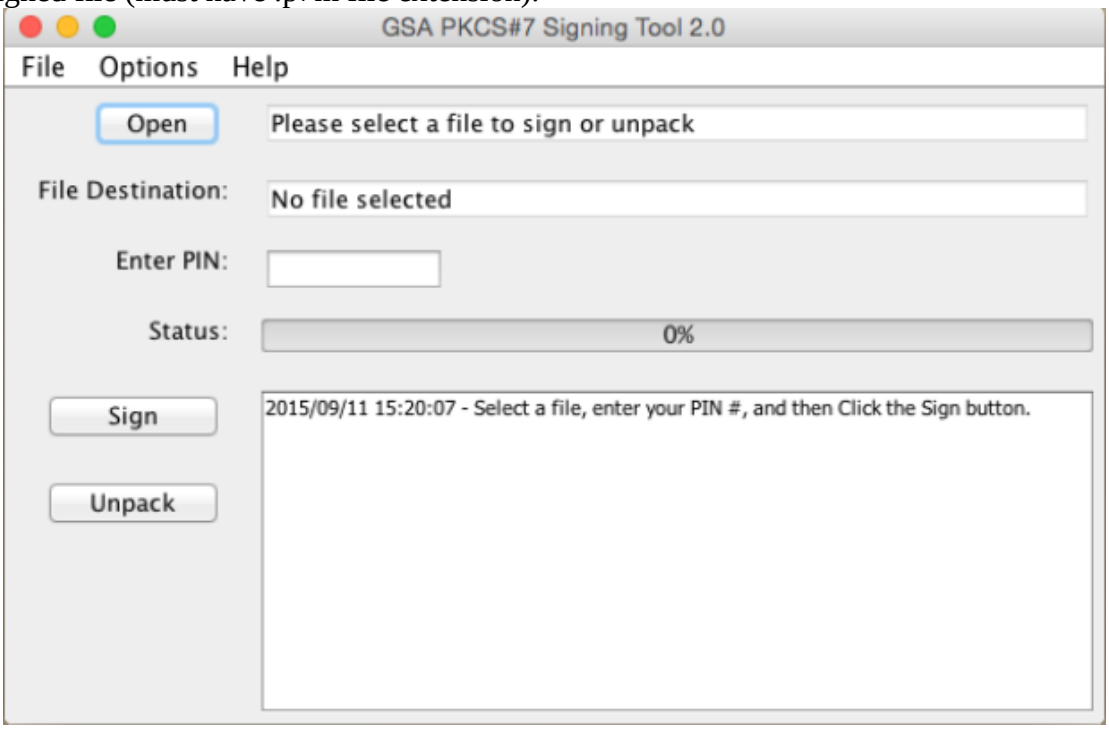
3.5 Sign

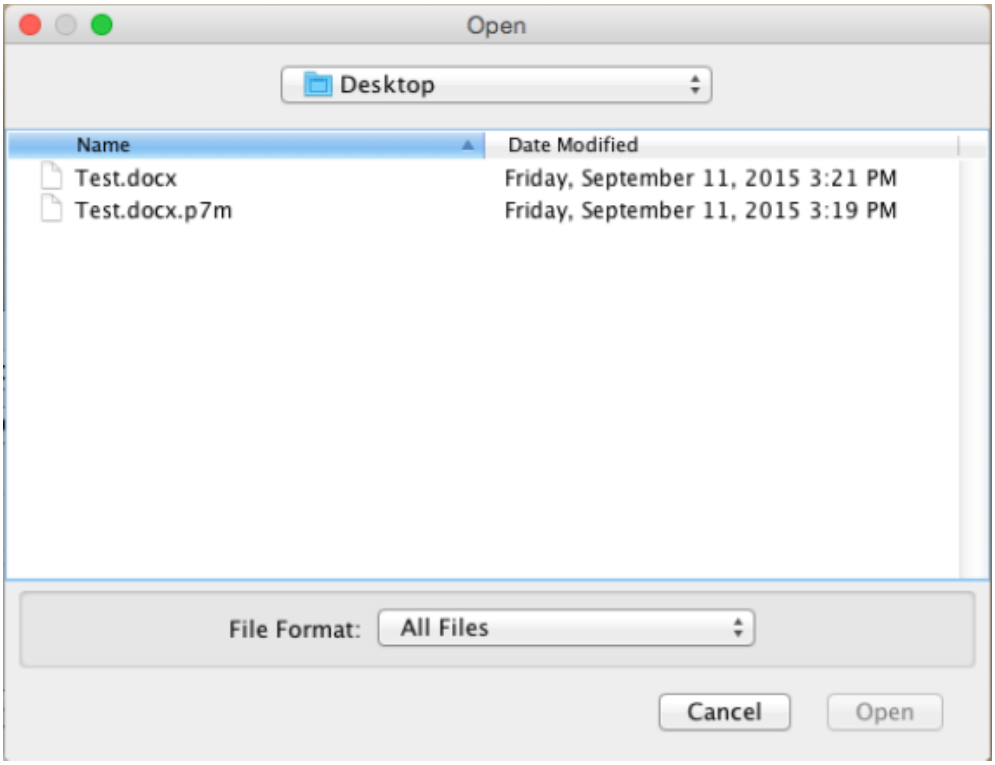
Click the “Sign” button to start the signing process. You will notice the status bar lets you know when the signing process is complete. If an issues were to arise you would notice the error message in the status box below the status bar.



3.6 Unpack

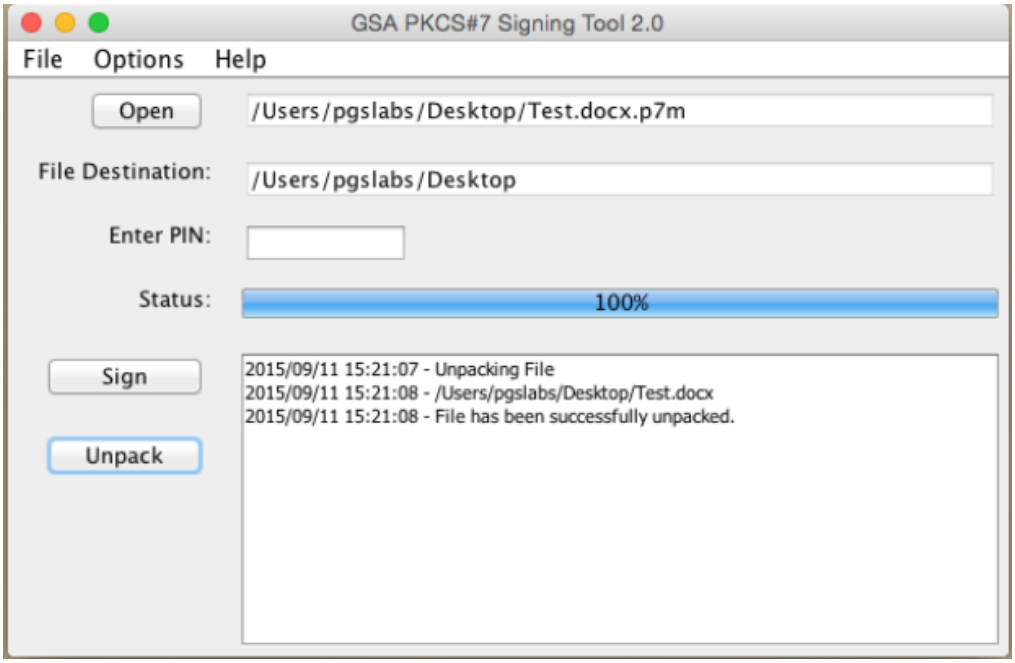
To unpack a signed file (a file with a .p7m file extension) click the “Open” button and select a signed file (must have .p7m file extension).





3.7 Unpack (cont'd)

Click the Unpack button. The signed file should now be unpacked to its original format (.doc or .docx) for viewing.



4. Troubleshooting

4.1 Who to contact?

If you are running into issues where a new .p7m file is not being created or any other issues regarding the PKCS7 Signing Tool, please send a request using the contact us form on IDManagement.gov.

https://www.idmanagement.gov/contact-us

4.2 Signing large files

If you need to sign a file larger than usual (i.e. 100+ MB), you will need to set your local Java heap size to a greater size. It is recommended to set the heap size to greater or equal to 2048. If you are signing a large file and the tool is hanging, try setting the heap size to a greater value.